

**Notice of Allowability**

Application No.

10/026,520

Examiner

Inder P. Mehra

Applicant(s)

LIM, BYUNG KEUN

Art Unit

2617

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment dated: 7/20/06.
2. ☒ The allowed claim(s) is/are 1, 4, 6-7, 9, 11-13 and 15 (Renumbered as 1-9 resoeactively).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

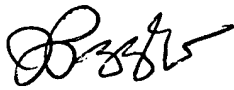
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date see office action
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**JOHN PEZZLO**  
**PRIMARY EXAMINER**

### **DETAILED ACTION**

1. This office action is in response to amendment dated: 4/17/06.

#### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on 9/16/2004 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

#### ***Allowable Subject Matter***

3. Claims 1, 4, 6-7, 9, 11-13 and 15 are allowed.

### **REASONS FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach or suggest directly, or indirectly the following limitations in combinations with other limitations of the claims, as follows:

**As recited by claim 1,**

“a home agent (HA) that generates and transmits a registration release message to the first FA, upon receipt of the registration request message from the MN sent via the second FA directly to the HA, when the hand-off takes place, the HA setting the life time field of the registration release message to the value of 0 causing the first FA to delete prior registration information of the MN, stored in at least a visitor table, after receipt of the registration release message;

wherein the registration release message has a data structure and type field value identical to the registration request message”.

**As recited by claim 7,**

“transmitting a registration request message from a mobile node (MN) to a home agent (HA) via a second FA directly to the HA when a hand-off takes place from a first foreign agent (FA) to a second FA;

transmitting a registration release message from the HA to the first FA; and deleting registration information of the MN at the first FA in accordance with the registration release message,

wherein the registration release message sets the life time field value to 0 to delete the registration information of the MN stored in at least a visitor table of the first FA that provided a mobile IP service to the MN before the hand-off,

wherein the registration release message has the same data structure and type field value as the registration request message”.

**As recited by claim 12’**

“transmitting a registration release message, having a data structure and type field value the same as the registration request message, from the HA that has received the registration release message from the new FA, to an old FA; and

deleting registration information of the MN, stored in at least a visitor table of the old FA, in accordance with the registration release message,

Art Unit: 2617

wherein the HA sets a life time field of the registration release message to a value of 0 to cause the deletion of the registration information of the MN in the old FA that provided mobile IP service to the MN before the hand-off’.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

### *Conclusion*

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Inder Pal Mehra* 11/11/06  
Inder P Mehra  
Examiner  
Art Unit 2617

*John Pezzlo*  
JOHN PEZZLO  
PRIMARY EXAMINER